

UNITED STATES GOVERNMENT

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Memorandum

EP 66-145

TO : The Files: Contract No. 4382

DATE: 22 June 1966

25X1A9a FROM : [REDACTED]

25X1A5a1

SUBJECT: Inspection Report No. 1 - PNA-7 Antenna Evaluation with [REDACTED]
25X1A5a1 [REDACTED]

1. Project Description:

Task I is a theoretical evaluation of the antenna gain in different atmospheric environments. Task II is a study of the effectiveness of the antenna for polarization diversity use.

2. Contractual Information:

- a. Initial Cost: \$18,862.00 CPFF
- b. Request for Procurement Action: 25 February 1966
- c. Initiation Date: 16 May 1966
- d. Completion Date: Phase I - 25 July 1966
Phase II - Seven weeks after authorization to proceed.
- e. Deliverable Items: Five copies of final report.

3. Date of Meeting: 13 June 1966

4. Place of Meeting: Falls Church, Virginia.

5. Persons Attending:

Agency

25X1A9a [REDACTED]

Non-Agency

Mr. [REDACTED]
Mr. [REDACTED]

25X1A5a1

6. Contractor's Performance:

- a. On schedule and expected to remain so: Yes
- b. Within obligated funds and expected to remain so: Yes
- c. Satisfactory technical progress: Yes

7. Project Status:

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7. Project Status:

Basic expressions of the antenna's performance in a system have been derived. A performance factor will ultimately be defined in terms of a total systems noise figure, which will consider the effective atmospheric noise (using Chrichlow's/NBS curves) pre-amp transmission line, and receiver noise. A few curves of the antenna's effective gain in different noise environments have been plotted.

[REDACTED]

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Distribution:

- ✓Original - R&D-EP Subject
- 1 - OL/PC/PCB/CAS
- 1 - OC-OS
- 1 - R&D Lab
- 1 - OC-E/ESB
- 1 - EP Chrono

25X1A9a OC-E/R&D-EP/[REDACTED] mtl (22 June 1966)

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